

Title (en)
METHOD FOR PRODUCING BUTADIENE

Title (de)
VERFAHREN ZUR HERSTELLUNG VON BUTADIEN

Title (fr)
PROCÉDÉ DE PRODUCTION DE BUTADIÈNE

Publication
EP 3045437 A1 20160720 (EN)

Application
EP 14844839 A 20140909

Priority
• JP 2013189018 A 20130912
• JP 2014073800 W 20140909

Abstract (en)
A method for producing butadiene from 2,3-butanediol with high selectivity without using a radioactive substance is disclosed. The method for producing butadiene comprises the step of dehydrating 2,3-butanediol in the presence of a catalyst containing an alkali metal salt of phosphoric acid such as an alkali metal dihydrogen phosphate supported on silica. Preferred examples of the alkali metal herein include K, Rb, and Cs. The catalyst is preferably a catalyst prepared by calcination of the silica to which the alkali metal of phosphoric acid is attached.

IPC 8 full level
C07C 1/24 (2006.01); **C07C 11/167** (2006.01)

CPC (source: EP US)
B01J 27/1806 (2013.01 - EP US); **C07C 1/24** (2013.01 - EP US); **B01J 35/40** (2024.01 - EP US); **B01J 35/615** (2024.01 - EP US); **B01J 37/0018** (2013.01 - EP US); **B01J 37/0236** (2013.01 - EP US); **B01J 37/08** (2013.01 - EP US); **C07C 2521/08** (2013.01 - EP US); **C07C 2527/167** (2013.01 - EP US); **C07C 2527/173** (2013.01 - US)

Cited by
FR3129300A1; WO2023089174A1; WO2023092116A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
EP 3045437 A1 20160720; **EP 3045437 A4 20170419**; **EP 3045437 B1 20180418**; BR 112016004986 A8 20200211; BR 112016004986 B1 20210223; CN 105452204 A 20160330; CN 105452204 B 20180928; JP 6229721 B2 20171115; JP WO2015037580 A1 20170302; MY 177848 A 20200923; SG 11201601958W A 20160428; TW 201518255 A 20150516; TW I630190 B 20180721; US 2016229765 A1 20160811; US 9790140 B2 20171017; WO 2015037580 A1 20150319

DOCDB simple family (application)
EP 14844839 A 20140909; BR 112016004986 A 20140909; CN 201480044846 A 20140909; JP 2014073800 W 20140909; JP 2015536582 A 20140909; MY PI2016700815 A 20140909; SG 11201601958W A 20140909; TW 103131262 A 20140911; US 201415021540 A 20140909